

Exercise-1

1. 132

2. 124

3. 0

4. 998

5. 0

6. 843

Exercise-2

$$\begin{array}{r} 1. \text{ (a)} \quad 6 \ 4 \ 9 \\ - 4 \ 0 \ 2 \\ \hline 2 \ 4 \ 7 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 8 \ 5 \ 2 \\ - 4 \ 3 \ 1 \\ \hline 4 \ 2 \ 1 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 6 \ 5 \ 7 \ 8 \\ - 3 \ 5 \ 1 \ 7 \\ \hline 3 \ 0 \ 6 \ 1 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 7 \ 9 \ 6 \ 4 \\ - 5 \ 2 \ 2 \ 2 \\ \hline 2 \ 7 \ 4 \ 2 \end{array}$$

2. (a) $6492 > 6231$

$$\begin{array}{r} 6 \ 4 \ 9 \ 2 \\ - 6 \ 2 \ 3 \ 1 \\ \hline 2 \ 6 \ 1 \end{array}$$

So, $6492 > 6231$ by 261.(b) $4444 > 4244$

$$\begin{array}{r} 4 \ 4 \ 4 \ 4 \\ - 4 \ 2 \ 4 \ 4 \\ \hline 2 \ 0 \ 0 \end{array}$$

So, $4444 > 4244$ by 200.(c) $6368 > 3365$

$$\begin{array}{r} 6 \ 3 \ 6 \ 8 \\ - 3 \ 3 \ 6 \ 5 \\ \hline 3 \ 0 \ 0 \ 3 \end{array}$$

So, $6368 > 3365$ by 3003.(d) $2997 > 2885$

$$\begin{array}{r} 2 \ 9 \ 9 \ 7 \\ - 2 \ 8 \ 8 \ 5 \\ \hline 1 \ 1 \ 2 \end{array}$$

So, $2997 > 2885$ by 112.(e) $5556 > 5334$

$$\begin{array}{r} 5 \ 5 \ 5 \ 6 \\ - 5 \ 3 \ 3 \ 4 \\ \hline 2 \ 2 \ 2 \end{array}$$

So, $5556 > 5334$ by 222.(f) $8999 > 8989$

$$\begin{array}{r} 8 \ 9 \ 9 \ 9 \\ - 8 \ 9 \ 8 \ 9 \\ \hline 1 \ 0 \end{array}$$

So, $8999 > 8989$ by 10.

3.

$$\begin{array}{r} 3 \ 6 \ 5 \ 6 \\ - 1 \ 5 \ 3 \ 4 \\ \hline 2 \ 1 \ 2 \ 2 \end{array}$$

So, 2122 should be added to 1534 to get 3656.

Exercise-3

1. (a)
$$\begin{array}{r} \textcircled{3} \textcircled{13} \textcircled{15} \\ \cancel{A} \cancel{A} B \\ - 3 \ 4 \ 8 \\ \hline 0 \ 9 \ 7 \end{array}$$

(b)
$$\begin{array}{r} \textcircled{5} \textcircled{15} \\ 9 \ \cancel{A} \ \cancel{B} \\ - 4 \ 4 \ 6 \\ \hline 5 \ 1 \ 9 \end{array}$$

(c)
$$\begin{array}{r} \textcircled{4} \textcircled{14} \textcircled{10} \\ \cancel{5} \ \cancel{7} \ \cancel{8} \\ - 3 \ 9 \ 7 \\ \hline 1 \ 7 \ 3 \end{array}$$

(d)
$$\begin{array}{r} \textcircled{4} \textcircled{18} \textcircled{15} \\ \cancel{5} \ \cancel{9} \ \cancel{8} \\ - 2 \ 9 \ 6 \\ \hline 2 \ 9 \ 9 \end{array}$$

(e)
$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{5} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 1 \ 3 \ 7 \ 5 \\ \hline 3 \ 6 \ 2 \ 5 \end{array}$$

(f)
$$\begin{array}{r} \textcircled{5} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{8} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 4 \ 2 \ 2 \ 8 \\ \hline 1 \ 7 \ 7 \ 2 \end{array}$$

(g)
$$\begin{array}{r} \textcircled{6} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{7} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 3 \ 9 \ 9 \ 9 \\ \hline 3 \ 0 \ 0 \ 1 \end{array}$$

(h)
$$\begin{array}{r} \textcircled{1} \textcircled{9} \textcircled{9} \textcircled{12} \\ \cancel{2} \ \cancel{0} \ \cancel{0} \ \cancel{2} \\ - 1 \ 3 \ 5 \ 7 \\ \hline 6 \ 4 \ 5 \end{array}$$

2. (a)
$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{11} \textcircled{10} \\ \cancel{8} \ \cancel{0} \ \cancel{2} \ \cancel{8} \\ - 4 \ 3 \ 5 \ 2 \\ \hline 6 \ 6 \ 8 \end{array}$$

(b)
$$\begin{array}{r} \textcircled{5} \textcircled{9} \textcircled{9} \textcircled{17} \\ \cancel{8} \ \cancel{0} \ \cancel{0} \ \cancel{7} \\ - 3 \ 5 \ 6 \ 9 \\ \hline 2 \ 4 \ 3 \ 8 \end{array}$$

(c)
$$\begin{array}{r} \textcircled{8} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{9} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 3 \ 3 \ 6 \ 1 \\ \hline 5 \ 6 \ 3 \ 9 \end{array}$$

(d)
$$\begin{array}{r} \textcircled{7} \textcircled{14} \textcircled{2} \textcircled{11} \\ \cancel{8} \ \cancel{A} \ \cancel{2} \ \cancel{A} \\ - 2 \ 5 \ 2 \ 6 \\ \hline 5 \ 9 \ 0 \ 5 \end{array}$$

Exercise-4

1.
$$\begin{array}{r} \textcircled{5} \textcircled{12} \textcircled{0} \textcircled{10} \\ \cancel{8} \ \cancel{2} \ \cancel{A} \ \cancel{8} \\ - 3 \ 4 \ 0 \ 5 \\ \hline 2 \ 8 \ 0 \ 5 \end{array} \quad \begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 2 \ 8 \ 0 \ 5 \\ + 3 \ 4 \ 0 \ 5 \\ \hline 6 \ 2 \ 1 \ 0 \end{array}$$

2.
$$\begin{array}{r} \textcircled{8} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{9} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 3 \ 4 \ 5 \ 5 \\ \hline 5 \ 5 \ 4 \ 5 \end{array} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 5 \ 5 \ 4 \ 5 \\ + 3 \ 4 \ 5 \ 5 \\ \hline 9 \ 0 \ 0 \ 0 \end{array}$$

3.
$$\begin{array}{r} \textcircled{6} \textcircled{12} \textcircled{14} \\ \cancel{7} \ \cancel{3} \ \cancel{A} \ 6 \\ - 4 \ 7 \ 5 \ 2 \\ \hline 2 \ 5 \ 9 \ 4 \end{array} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \\ 2 \ 5 \ 9 \ 4 \\ + 4 \ 7 \ 5 \ 2 \\ \hline 7 \ 3 \ 4 \ 6 \end{array}$$

4.
$$\begin{array}{r} \textcircled{4} \textcircled{15} \textcircled{2} \textcircled{11} \\ \cancel{8} \ \cancel{8} \ \cancel{2} \ \cancel{A} \\ - 3 \ 7 \ 1 \ 6 \\ \hline 1 \ 8 \ 1 \ 5 \end{array} \quad \begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 1 \ 8 \ 1 \ 5 \\ + 3 \ 7 \ 1 \ 6 \\ \hline 5 \ 5 \ 3 \ 1 \end{array}$$

5.
$$\begin{array}{r} \textcircled{5} \textcircled{11} \textcircled{11} \textcircled{13} \\ \cancel{8} \ \cancel{2} \ \cancel{2} \ \cancel{8} \\ - 2 \ 4 \ 3 \ 5 \\ \hline 3 \ 7 \ 8 \ 8 \end{array} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 3 \ 7 \ 8 \ 8 \\ + 2 \ 4 \ 3 \ 5 \\ \hline 6 \ 2 \ 2 \ 3 \end{array}$$

6.
$$\begin{array}{r} \textcircled{3} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{A} \ \cancel{0} \ \cancel{0} \ \cancel{8} \\ - 1 \ 3 \ 5 \ 3 \\ \hline 2 \ 6 \ 4 \ 7 \end{array} \quad \begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 2 \ 6 \ 4 \ 7 \\ + 1 \ 3 \ 5 \ 3 \\ \hline 4 \ 0 \ 0 \ 0 \end{array}$$

$$\begin{array}{r}
 \textcircled{7} \textcircled{11} \textcircled{14} \textcircled{12} \\
 8 \ 2 \ 5 \ 2 \\
 - 1 \ 6 \ 6 \ 4 \\
 \hline
 6 \ 5 \ 8 \ 8
 \end{array}
 \begin{array}{r}
 \textcircled{1} \textcircled{1} \textcircled{1} \\
 6 \ 5 \ 8 \ 8 \\
 + 1 \ 6 \ 6 \ 4 \\
 \hline
 8 \ 2 \ 5 \ 2
 \end{array}$$

$$\begin{array}{r}
 \textcircled{5} \textcircled{11} \textcircled{11} \textcircled{10} \\
 8 \ 2 \ 2 \ 8 \\
 - 2 \ 2 \ 6 \ 1 \\
 \hline
 3 \ 8 \ 5 \ 9
 \end{array}
 \begin{array}{r}
 \textcircled{1} \textcircled{1} \textcircled{1} \\
 3 \ 8 \ 5 \ 9 \\
 + 2 \ 2 \ 6 \ 1 \\
 \hline
 6 \ 1 \ 2 \ 0
 \end{array}$$

$$\begin{array}{r}
 9 \ 9 \ 9 \ 9 \\
 - 5 \ 5 \ 5 \ 5 \\
 \hline
 4 \ 4 \ 4 \ 4
 \end{array}
 \begin{array}{r}
 4 \ 4 \ 4 \ 4 \\
 + 5 \ 5 \ 5 \ 5 \\
 \hline
 9 \ 9 \ 9 \ 9
 \end{array}$$

$$\begin{array}{r}
 \textcircled{2} \textcircled{12} \textcircled{14} \\
 8 \ 2 \ 6 \\
 - 1 \ 7 \ 5 \ 2 \\
 \hline
 1 \ 5 \ 9 \ 4
 \end{array}
 \begin{array}{r}
 \textcircled{1} \textcircled{1} \\
 1 \ 5 \ 9 \ 4 \\
 + 1 \ 7 \ 5 \ 2 \\
 \hline
 3 \ 3 \ 4 \ 6
 \end{array}$$

Exercise-5

1. Number of English books = $8735 - 2731$
 $= 6004$

So, there are 6004 books in English.

$$\begin{array}{r}
 8 \ 7 \ 3 \ 5 \\
 - 2 \ 7 \ 3 \ 1 \\
 \hline
 6 \ 0 \ 0 \ 4
 \end{array}$$

2. Total cars sold = 3882
 Maruti cars = $- 1795$
 Hyundai cars = $\underline{2087}$

So, 2087 Hyundai cars were sold in that year.

3. Number of fruit buns left = $2500 - 972$
 $= 1528$

So, 1528 fruit buns are left to be sold.

$$\begin{array}{r}
 \textcircled{1} \textcircled{14} \textcircled{9} \textcircled{10} \\
 2 \ 8 \ 8 \ 8 \\
 - 9 \ 7 \ 2 \\
 \hline
 1 \ 5 \ 2 \ 8
 \end{array}$$

4. As $1897 > 1298$, so, Sachin scored more runs.

$$\begin{array}{r}
 \textcircled{7} \textcircled{15} \textcircled{17} \\
 1 \ 8 \ 8 \ 8 \\
 - 1 \ 2 \ 9 \ 8 \\
 \hline
 5 \ 9 \ 9
 \end{array}$$

So, Sachin scored 599 runs more than Saurav.

5.
$$\begin{array}{r}
 \textcircled{7} \textcircled{15} \\
 3 \ 8 \ 8 \ 8 \\
 - 1 \ 7 \ 3 \ 8 \\
 \hline
 2 \ 1 \ 4 \ 7
 \end{array}$$

So, 2147 should be subtracted from 3885 to get 1738.

6. Ratna will get back = ₹ 3000 - ₹ 2754
= ₹ 246

So, Ratna will get back ₹ 246.

$$\begin{array}{r} \textcircled{2} \textcircled{9} \textcircled{9} \textcircled{0} \\ \cancel{3} \cancel{0} \cancel{0} \cancel{0} \\ - 2754 \\ \hline 246 \end{array}$$

Exercise-6

1. Add the numbers 3097 and 4723 first.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 3097 \\ + 4723 \\ \hline 7820 \end{array}$$

Now, subtract 1896 from the sum.

$$7820 - 1896 = 5924$$

$$\begin{array}{r} \textcircled{6} \textcircled{17} \textcircled{11} \textcircled{10} \\ \cancel{7} \cancel{8} \cancel{2} \cancel{0} \\ - 1896 \\ \hline 5924 \end{array}$$

2. Sum of 4267 and 3339 = 4267 + 3339 = 7606

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 4267 \\ + 3339 \\ \hline 7606 \end{array}$$

Now, subtract 7606 from 9265.

$$9265 - 7606 = 1659$$

$$\begin{array}{r} \textcircled{8} \textcircled{12} \textcircled{5} \textcircled{13} \\ \cancel{9} \cancel{2} \cancel{6} \cancel{5} \\ - 7606 \\ \hline 1659 \end{array}$$

3. Total number of students and parents = 2218 + 217 = 2435

$$\begin{array}{r} \textcircled{1} \\ 2218 \\ + 217 \\ \hline 2435 \end{array}$$

Number of teachers = 2500 - 2435 = 65

So, there are 65 teachers in the auditorium.

$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{10} \\ 2 \cancel{5} \cancel{0} \cancel{0} \\ - 2435 \\ \hline 65 \end{array}$$

4. Total money spent by Anita = ₹ 2750 + ₹ 650

$$= ₹ 3400$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 2750 \\ + 650 \\ \hline 3400 \end{array}$$

$$\text{Money left with Anita} = ₹ 9250 - ₹ 3400$$

$$= ₹ 5850$$

$$\begin{array}{r} \textcircled{8} \textcircled{12} \\ \cancel{9} \cancel{2} 50 \\ - 3400 \\ \hline 5850 \end{array}$$

So, ₹ 5850 are left with Anita.

5. Total number of persons visited the zoo on the first two days

$$= 3257 + 2469 = 5726$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 3257 \\ + 2469 \\ \hline 5726 \end{array}$$

Number of persons visited the zoo on the third day

$$= 7920 - 5726 = 2194$$

$$\begin{array}{r} \textcircled{8} \textcircled{11} \textcircled{10} \\ 7 \cancel{9} \cancel{2} \cancel{0} \\ - 5726 \\ \hline 2194 \end{array}$$

So, 2194 persons visited the zoo on the third day.

Exercise-7

2. Red beads = 2345

Blue beads = + 3172

Total beads = 5517

So, Shanti has 5517 beads in total.

3. Number of pages left to be read = 1278 - 992

$$= 286$$

$$\begin{array}{r} \textcircled{0} \textcircled{11} \textcircled{17} \\ \cancel{1} \cancel{2} \cancel{7} 8 \\ - 992 \\ \hline 286 \end{array}$$

So, 286 pages are left to be read.

$$4. \text{ Total number of bottles} = 1235 + 878$$

$$= 2113$$

So, the shopkeeper has 2113 bottles.

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 1 \ 2 \ 3 \ 5 \\ + \quad 8 \ 7 \ 8 \\ \hline 2 \ 1 \ 1 \ 3 \end{array}$$

$$5. \text{ Money left in bank account} = ₹ 9730 - ₹ 5550$$

$$= ₹ 4180$$

So, ₹ 4180 are left in Maya's mother's bank account.

$$\begin{array}{r} \textcircled{6} \textcircled{1} \\ 9 \ 7 \ 3 \ 0 \\ - 5 \ 5 \ 5 \ 0 \\ \hline 4 \ 1 \ 8 \ 0 \end{array}$$

$$6. \text{ Total number of seats in the stadium} = 5000$$

$$\text{Number of people came} = 3725$$

$$\therefore \text{Number of empty seats} = 5000 - 3725$$

$$= 1275$$

$$\begin{array}{r} \textcircled{4} \textcircled{9} \textcircled{9} \textcircled{0} \\ 5 \ 0 \ 0 \ 0 \\ - 3 \ 7 \ 2 \ 5 \\ \hline 1 \ 2 \ 7 \ 5 \end{array}$$

So, 1275 seats were left empty.

$$7. \text{ Total number of books in the library} = 3125$$

$$\text{Number of books left in the library} = 1178$$

$$\therefore \text{Number of books sent out} = 3125 - 1178$$

$$= 1947$$

$$\begin{array}{r} \textcircled{2} \textcircled{0} \textcircled{1} \textcircled{5} \\ 3 \ 1 \ 2 \ 5 \\ - 1 \ 1 \ 7 \ 8 \\ \hline 1 \ 9 \ 4 \ 7 \end{array}$$

So, 1947 books were sent out.

Fun Time

$$\begin{array}{r} \textcircled{9} \textcircled{0} \ 9 \ 8 \\ - 6 \ 7 \ \textcircled{5} \ \textcircled{4} \\ \hline 2 \ 3 \ 4 \ 4 \end{array}$$

$$\begin{array}{r} \textcircled{6} \ 4 \ \textcircled{1} \ 6 \\ - 3 \ 6 \ 2 \ \textcircled{3} \\ \hline 2 \ \textcircled{7} \ 9 \ 3 \end{array}$$

Mental Maths Corner

1. (a) (i) (b) (ii) (c) (ii)

2. (a) False (b) True (c) True (d) False (e) True

Review Exercise

1. (a)
$$\begin{array}{r} \textcircled{4} \textcircled{12} \textcircled{17} \\ 2 \ 8 \ 8 \ 8 \\ - 1 \ 2 \ 4 \ 9 \\ \hline 1 \ 2 \ 8 \ 8 \end{array}$$

(b)
$$\begin{array}{r} \textcircled{1} \textcircled{16} \textcircled{13} \\ 7 \ 2 \ 8 \ 8 \\ - 5 \ 1 \ 9 \ 6 \\ \hline 2 \ 0 \ 7 \ 7 \end{array}$$

(c)
$$\begin{array}{r} \textcircled{8} \textcircled{9} \textcircled{12} \textcircled{10} \\ 8 \ 8 \ 8 \ 8 \\ - 3 \ 9 \ 9 \ 7 \\ \hline 5 \ 0 \ 3 \ 3 \end{array}$$

2. The money needed = ₹ 6000 - ₹ 3257
= ₹ 2743

$$\begin{array}{r} \textcircled{5} \textcircled{9} \textcircled{9} \textcircled{10} \\ \cancel{8} \cancel{8} \cancel{8} \cancel{8} \\ - 3 \ 2 \ 5 \ 7 \\ \hline 2 \ 7 \ 4 \ 3 \end{array}$$

So, class III need to collect ₹ 2743 more.

3. Total number of boxes delivered = 1725 + 2135 = 3860

$$\begin{array}{r} \textcircled{1} \\ 1 \ 7 \ 2 \ 5 \\ + 2 \ 1 \ 3 \ 5 \\ \hline 3 \ 8 \ 6 \ 0 \end{array}$$

Number of boxes left in the truck = 4000 - 3860 = 140

$$\begin{array}{r} \textcircled{3} \textcircled{9} \textcircled{10} \\ \cancel{4} \ \cancel{8} \ \cancel{8} \ 0 \\ - 3 \ 8 \ 6 \ 0 \\ \hline 1 \ 4 \ 0 \end{array}$$

So, 140 boxes were left in the truck.

4. Money given by Ravi = ₹ 1260 + ₹ 560
= ₹ 1820

$$\begin{array}{r} \textcircled{1} \\ 1 \ 2 \ 6 \ 0 \\ + \ 5 \ 6 \ 0 \\ \hline 1 \ 8 \ 2 \ 0 \end{array}$$

Money left with Ravi = ₹ 3000 - ₹ 1820
= ₹ 1180

$$\begin{array}{r} \textcircled{2} \textcircled{9} \textcircled{10} \\ \cancel{3} \ \cancel{8} \ \cancel{8} \ 0 \\ - 1 \ 8 \ 2 \ 0 \\ \hline 1 \ 1 \ 8 \ 0 \end{array}$$

So, Ravi is left with ₹ 1180.

HOTS

27 and 0 are two numbers such that their sum as well as their difference is 27.

$$27 + 0 = 27 \quad \text{and} \quad 27 - 0 = 27.$$